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NEWS 1 Web Page for STN Seminar Schedule - N. America  
NEWS 2 DEC 01 ChemPort single article sales feature unavailable  
NEWS 3 FEB 02 Simultaneous left and right truncation (SLART) added for CERAB, COMPUAB, ELCOM, and SOLIDSTATE  
NEWS 4 FEB 02 GENBANK enhanced with SET PLURALS and SET SPELLING  
NEWS 5 FEB 06 Patent sequence location (PSL) data added to USGENE  
NEWS 6 FEB 10 COMPENDEX reloaded and enhanced  
NEWS 7 FEB 11 WTEXTILES reloaded and enhanced  
NEWS 8 FEB 19 New patent-examiner citations in 300,000 CA/CAplus patent records provide insights into related prior art  
NEWS 9 FEB 19 Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01  
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NEWS 11 FEB 23 MEDLINE now offers more precise author group fields and 2009 MeSH terms  
NEWS 12 FEB 23 TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms  
NEWS 13 FEB 23 Three million new patent records blast AEROSPACE into STN patent clusters  
NEWS 14 FEB 25 USGENE enhanced with patent family and legal status display data from INPADOCDB  
NEWS 15 MAR 06 INPADOCDB and INPAFAMDB enhanced with new display formats  
NEWS 16 MAR 11 EPFULL backfile enhanced with additional full-text applications and grants  
NEWS 17 MAR 11 ESBIOBASE reloaded and enhanced  
NEWS 18 MAR 20 CAS databases on STN enhanced with new super role for nanomaterial substances  
NEWS 19 MAR 23 CA/CAplus enhanced with more than 250,000 patent equivalents from China  
NEWS 20 MAR 30 IMSPATENTS reloaded and enhanced  
NEWS 21 APR 03 CAS coverage of exemplified prophetic substances enhanced  
NEWS 22 APR 07 STN is raising the limits on saved answers  
NEWS 23 APR 24 CA/CAplus now has more comprehensive patent assignee information  
NEWS 24 APR 26 USPATFULL and USPAT2 enhanced with patent assignment/reassignment information  
NEWS 25 APR 28 CAS patent authority coverage expanded  
NEWS 26 APR 28 ENCOMPLIT/ENCOMPLIT2 search fields enhanced  
NEWS 27 APR 28 Limits doubled for structure searching in CAS REGISTRY  
NEWS 28 MAY 08 STN Express, Version 8.4, now available  
NEWS 29 MAY 11 STN on the Web enhanced

NEWS 30 MAY 11 BEILSTEIN substance information now available on STN Easy  
NEWS 31 MAY 14 DGENE, PCTGEN and USGENE enhanced with increased limits for exact sequence match searches and introduction of free HIT display format

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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STRUCTURE FILE UPDATES: 13 MAY 2009 HIGHEST RN 1146612-21-6  
DICTIONARY FILE UPDATES: 13 MAY 2009 HIGHEST RN 1146612-21-6

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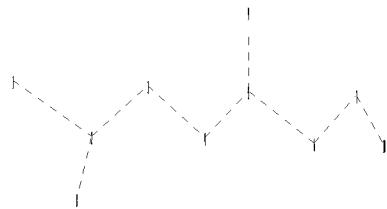
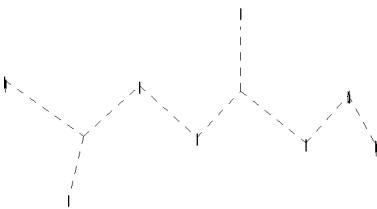
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stn/gen/stndoc/properties.html>

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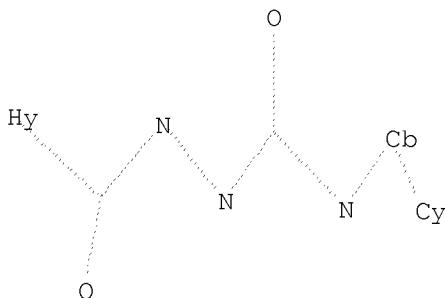
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chain bonds :  
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exact/norm bonds :  
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Match level :  
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
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L1 STRUCTURE UPLOADED

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Structure attributes must be viewed using STN Express query preparation.

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FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
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PROJECTED ANSWERS: 0 TO 0

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25 ANSWERS

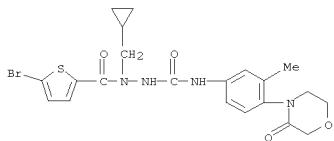
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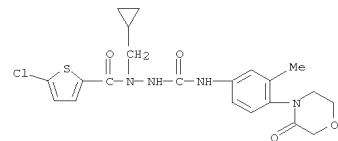
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1-(cyclopropylmethyl)-2-[[3-methyl-4-(3-oxo-4-  
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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

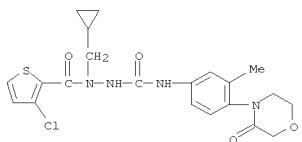
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MF C21 H23 Cl N4 O4 S



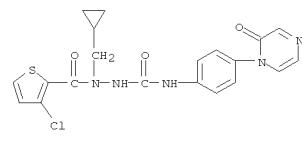
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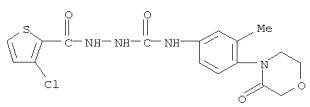
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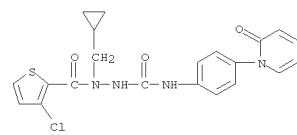
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ALL ANSWERS HAVE BEEN SCANNED

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FILE COVERS 1907 - 14 May 2009 VOL 150 ISS 20  
 FILE LAST UPDATED: 13 May 2009 (20090513/ED)  
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009  
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

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=> fil reg			
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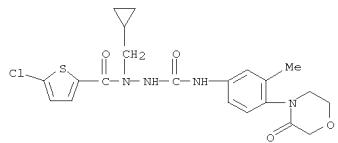
L1                   STRUCTURE UPLOADED  
L2                   0 S L1  
L3                   25 S L1 FULL  
L4                   19 S L3 AND CAPLUS/LC  
L5                   6 S L3 NOT L4

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FILE 'REGISTRY' ENTERED AT 14:16:55 ON 14 MAY 2009

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L5 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 1028307-88-1 REGISTRY  
ED Entered STN: 15 Jun 2008  
CN 2-Thiophene carboxylic acid, 5-chloro-,  
1-(cyclopropylmethyl)-2-[(3-methyl-4-(3-oxo-4-  
morpholinyl)phenyl)amino]carbonylhydrazide (CA INDEX NAME)  
MF C21 H23 Cl N4 O4 S  
SR Other Sources  
Database: ChemSpider (ChemZoo, Inc.)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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FILE COVERS 1907 - 14 May 2009 VOL 150 ISS 20
FILE LAST UPDATED: 13 May 2009 (20090513/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009
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This file contains CAS Registry Numbers for easy and accurate

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FILE 'REGISTRY' ENTERED AT 14:12:55 ON 14 MAY 2009
L1           STRUCTURE UPLOADED
L2           0 S L1
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L6           3 L4
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DOCUMENT NUMBER: 14256358

TITLE: Preparation of arylsemicarbazides as factor Xa inhibitors for the treatment of thromboembolic diseases  
 INVENTOR(S): Mederski, Werner; Tsaklakidis, Christos; Dorsch, Dieter; Cezanne, Bertram; Gleitz, Johannes  
 PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany  
 SOURCE: PCT Int. Appl., 36 pp.  
 CODEN: PIXXD2

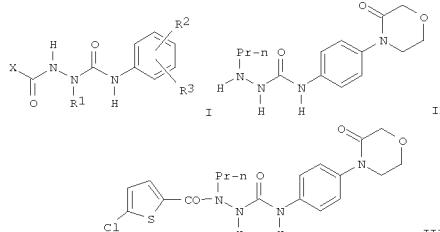
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004108718	A1	20041216	WO 2004-EP5088	20040512
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BW, GH, GM, KE, LS, MW, ME, NA, SD, SL, SZ, TZ, UC, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, QQ, GW, ML, MR, NE, SN, TD, TG				
DE 10325962	A1	20041223	DE 2003-10325962	20030607
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CA 2528233	A1	20041216	CA 2004-2528233	20040512
EP 1633745	A1	20060315	EP 2004-732283	20040512
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BR 2004010617	A	20060620	BR 2004-10617	20040512
CN 1802370	A	20060712	CN 2004-80015854	20040512
JP 2006527217	T	20061130	JP 2006-515768	20040512
AT 399781	T	20080715	AT 2004-732283	20040512
ES 2308179	T3	20081201	ES 2004-732283	20040512
IN 2005KN02382	A	20061027	IN 2005-KN2382	20051125
MX 2005013035	A	20060302	MX 2005-13035	20051202
ZA 2006000155	A	20070131	ZA 2006-155	20060106
US 20060241111	A1	20061026	US 2006-559385	20060621
PRIORITY APFLN. INFO.:			DE 2003-10325962	A 20030607
		WO 2004-EP5088		W 20040512

OTHER SOURCE(S): MARPAT 142:56358  
GI

AB Title compds. I [X = Het; Het = bicyclic aromatic heterocycle with 1-3 N, O, or S atoms; R1 = A, S(O)m, Ph, etc.; R2 = H, halo, A; A = H, (un)substituted cycloalkyl; R3 = 2-oxopiperidin-1-yl, 2-oxo-1H-pyridin-1-yl, etc.] and their pharmaceutically acceptable salts and formulations were prepared. For example, coupling of amine II, i.e., prepared from 4-(4-aminoethyl)morpholin-2-carboxylic acid with 1,3-dichloro-5-chlorophenol and 2-carboxylic acid afforded arylsemicarbazide III in 51% yield. In coagulation factor Xa receptor affinity binding assays, 3-examples of compds. exhibited IC50 values ranging from 87-390 nM, i.e., the IC50 value of arylsemicarbazide III was 390 nM. Compds. I are claimed to be useful for the treatment of thromboembolic diseases.

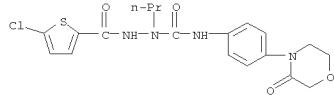
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of arylsemicarbazides as factor Xa inhibitors for the treatment of thromboembolic diseases)

RN 808732-05-0 CAPLUS

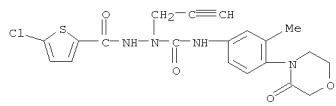
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RN 808732-06-1 CAPLUS

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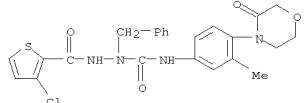
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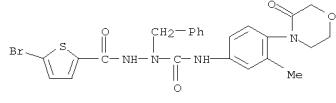
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RN 808732-08-3 CAPLUS

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RN 808732-09-4 CAPLUS

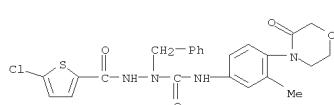
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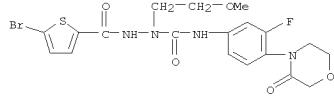
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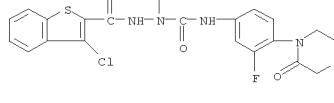
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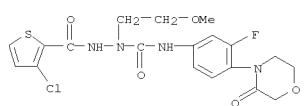
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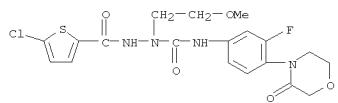
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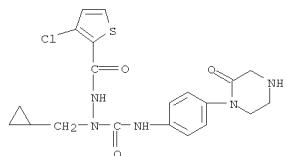
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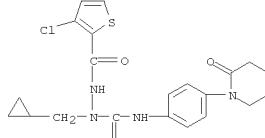
RN 808732-14-1 CAPLUS  
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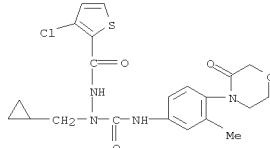
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2-(cyclopropylmethyl)-2-[[4-(2-oxo-1-piperazinyl)phenyl]amino]carbonyl]hydrazide (CA INDEX NAME)



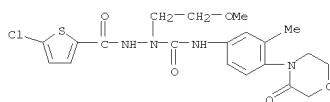
RN 808732-16-3 CAPLUS  
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2-(cyclopropylmethyl)-2-[[4-(2-oxo-1-piperidinyl)phenyl]amino]carbonyl]hydrazide (CA INDEX NAME)



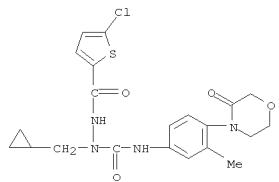
RN 808732-17-4 CAPLUS  
CN 2-Thiophene carboxylic acid, 3-chloro-,  
2-(cyclopropylmethyl)-2-[[3-methyl-4-(3-oxo-4-morpholinyl)phenyl]amino]carbonyl]hydrazide (CA INDEX NAME)



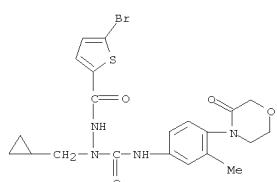
RN 808732-18-5 CAPLUS  
CN 2-Thiophene carboxylic acid, 5-chloro-,  
2-(cyclopropylmethyl)-2-[[3-methyl-4-(3-oxo-4-morpholinyl)phenyl]amino]carbonyl]hydrazide (CA INDEX NAME)



RN 808732-19-6 CAPLUS  
CN 2-Thiophene carboxylic acid, 5-chloro-,  
2-(cyclopropylmethyl)-2-[[3-methyl-4-(3-oxo-4-morpholinyl)phenyl]amino]carbonyl]hydrazide (CA INDEX NAME)



RN 808732-20-9 CAPLUS  
CN 2-Thiophene carboxylic acid, 5-bromo-,  
2-(cyclopropylmethyl)-2-[[3-methyl-4-(3-oxo-4-morpholinyl)phenyl]amino]carbonyl]hydrazide (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 1998-719263 CAPLUS

DOCUMENT NUMBER: 129:343722

ORIGINAL REFERENCE NO.: 129:70017a, 70020a

TITLE: Preparation of heterocyclic amino acid hydrazides as protease inhibitors

INVENTOR(S): Halbert, Stacie Marie; Michaud, Evelynne; Thompson, Scott Kevin; Weber, Daniel Frank

PATENT ASSIGNEE(S): Smithkline Beecham Corp., USA

SOURCE: PCT Int. Appl., 152 pp.

CODEN: PIIXKD2

DOCUMENT TYPE: Patent

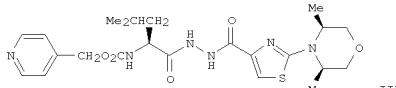
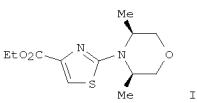
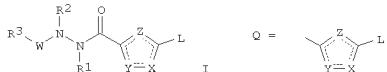
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9848799	A1	1998-11-05	WO 1998-US8740	19980429
W: AL, AU, BA, BB, BG, CA, CN, CZ, EE, GE, HU, ID, IL, IS, JP, KP, KR, LC, LK, LT, LV, MG, MR, MN, MK, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TR				
RM: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
ZA 9803522	A	1998-10-29	ZA 1998-3522	19980428
CA 2287989	A1	1998-11-05	CA 1998-2287989	19980429
AU 9873651	A	1998-11-24	AU 1998-73651	19980429
TR 9902703	T2	2000-02-21	TR 1999-2703	19980429
BR 9809333	A	2000-07-04	BR 1998-9333	19980429
EP 1019046	A1	2000-07-19	EP 1998-920926	19980429
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI				
HU 2000001294	A2	2001-04-28	HU 2000-1294	19980429
HU 2000001294	A3	2001-06-28		
JP 2002504097	T	2002-02-05	JP 1998-547389	19980429
NO 9905268	A	1999-11-15	NO 1999-5268	19991028
MX 9909976	A	2000-04-30	MX 1999-9976	19991028
US 20020049316	A1	2002-04-25	US 2001-22713	20011217
PRIORITY APPLN. INFO.:			US 1997-45067P	P 19970429
			WO 1998-US8740	W 19980429
			US 1999-423059	B1 19991029

OTHER SOURCE(S): MARPAT 129:343722  
GI

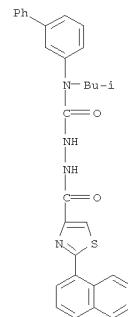


**AB** The present invention provides compds. I [ $L = C_2\text{-}6$  alkyl, Ar-C $\text{O}\text{-}6$  alkyl, Het-C $\text{O}\text{-}6$  alkyl, CH $\text{R}_4\text{N}^+\text{RSR}_6$ , CH $\text{R}_4\text{Ar}$ , CH $\text{R}_4\text{OAr}$ , NR $\text{R}_7$ ; Ar = (un)substituted Ph, (un)substituted naphthyl; Het = (un)substituted 5-7-membered monocyclic or 7-10-membered bicyclic heterocycle; W = CO, SO $_2$ ; X, Y, Z = independently H, Cl-6 alkyl, C $\text{2}\text{-}6$  alkenyl, Ar-C $\text{O}\text{-}6$  alkyl, Het-C $\text{O}\text{-}6$  alkyl; R $\text{3} = C_3\text{-}6$  alkyl, Ar, Het, CH $\text{R}_1\text{Ar}$ , CH $\text{R}_1\text{OAr}$ , NR $\text{R}_1\text{R}_2\text{R}_3$ , heterocycle Q; R $\text{4}$ ,

R $\text{11}$ , R $\text{15}$  = independently any group R, C $\text{3}\text{-}6$  cycloalkyl-C $\text{2}\text{-}6$  alkyl; R $\text{7}$  = any group R except H; R $\text{8}$  = (un)substituted 3-7 membered monocyclic or 7-10 membered bicyclic ring; R $\text{6}$ , R $\text{13}$  = independently R $\text{4}$ , R $\text{4CO}$ , R $\text{4CS}$ , R $\text{14OC}$ , R $\text{14OCN}$ , R $\text{14CO}$ ; R $\text{14}$  = any group R except H, which inhibit proteases, including cathepsin K, pharmaceutical compns. of such compds., and methods for treating diseases of excessive bone loss or cartilage or matrix degradation, including osteoporosis; gingival disease including gingivitis and periodontitis; arthritis, more specifically, osteoarthritis

and rheumatoid arthritis; Paget's disease; hypercalcemia or malignancy; and metabolic bone disease therewith. Thus, addition of cis-2,6-dimethylmorpholine with benzoyl isothiocyanate, followed by hydrolysis of the resulting benzoylthiourea and cyclocondensation with Et bromopyruvate, gave thiazole II. Conversion of II into the corresponding hydrazide with N $\text{2H}_4$  and condensation with N-(4-pyridinylmethoxycarbonyl)-L-leucine gave hydrazide III. Preprns. for 195 addnl. hydrazides are also given.

**IT** 215520-49-3  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of heterocyclic amino acid hydrazides as protease inhibitors)  
RN 215520-49-3 CAPLUS



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

TITLE: Relation between molecular structure and tuberculostatic activity in the 1-acyl-4-aryliothiocarbazide group

AUTHOR(S): Buu-Hoi, Ng. P.; Xuong, Ng. D.; Gazave, J. M.; Schembri, L.; Nam, Ng. H.; Long, C. T.

CORPORATE SOURCE: Univ. Paris

SOURCE: Bulletin de la Societe Chimique de France (1956) 363-9

CODEN: ESCFAS; ISSN: 0037-8968

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB For diagram(s), see printed CA Issue.

Hydrazides (I) were prepared in 80-98% yield by refluxing about 12 h. aic.

solns. of the Me or Et ester of the acid with excess 95% hydrazine hydrate; azelaic dihydrazide, colorless leaflets, m. 177°; sebacic dihydrazide, colorless leaflets, m. 185°. Et 3-phenylsalicylate, b.p. 225°, m. 63°, (needles from EtOH), prepared by refluxing the acid 10 h. with a large excess of EtOH saturated with dry HCl, gave 3-phenylsalicyloyl hydrazide, colorless prisms from EtOH, m. 186°. Me 9-chloro-3-methylsalicylate, m. 88° (needles from EtOH), from esterification of the corresponding acid prepared by the action of Cl on o-creositic acid in AcOH solution containing Fe, gave 5-chloro-3-methylsalicyloyl hydrazide, colorless needles from EtOH, m. 151°. Me 5-bromo-3-methylsalicylate, m. 104°, prepared according to Thiele and Eichswede [Ann. chemical 311, 377 (1900)], gave the corresponding I, colorless needles from EtOH, m. 154°.

1-Acy1-4-aryliothiocarbazides (II) were prepared in quant. yield as colorless,

difficultly-soluble needles by warming a CGH6 solution (or suspension) of the I

with the aryl isocyanate, washing the crystals deposited on cooling with petr. ether, and recrystg. from EtOH. 1-Acy1-4-aryliothiocarbazides (III) were prepared in 70-98% yield as colorless needles, more soluble than the

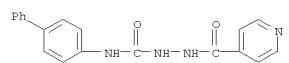
corresponding II, by boiling an alc. solution of the I with the aryl isothiocyanate prepared from the corresponding N,N'-diaryliothiourea

(Buu-Hoi et al., C.A. 50, 34061). Bis(thiocarbazides)

(RC $\text{6H}_4\text{NHCSNNHC}$ ) $_2$ (CH $\text{2H}$ ) $_n$

(where n = 7 or 8) of aliphatic dicarboxylic acids were prepared as silky colorless needles from EtOH: azelaoyl bis(p-tolylthiocarbazide), m. 174°; azelaoyl bis(p-methoxyphenylthiocarbazide), m. 194°; azelaoyl bis(p-bromophenylthiocarbazide), m. 212° from EtOH-C $\text{6H}_6$ ; sebacyl bis(p-fluorophenylthiocarbazide), m. 178°; sebacyl bis(phenylthiocarbazide), m. 148°. A turbidimetric method of measuring tuberculostatic activity compared with isonicotinoyl hydrazide is described, the results of which show a basal min. inhibitory concn. of 10-4 for II and III, 10-5 for derivs. of isonicotinic acid and p-hydroxyzoic acid. The following II, RC $\text{ONHHCONHAR}$ , were prepared (R, Ar, and m.p. given, resp.):

CH:CH:N:CH:CH:C (IV), Ph (V), 242°; IV, p-ClC $\text{6H}_4$  (VI), 249°; IV, p-BrC $\text{6H}_4$  (VII), 261°; IV, p- $\text{EtC}_6\text{H}_4$  (VIII), 255°; IV, p-PhC $\text{6H}_4$  (p-IX), 278°; IV, o-IX, 246°; IV, o-C $\text{10H}_7$  (o-X), 249°; IV,  $\beta$ -X, 252°; CH:N:CH:CH:CH:C (XI), V,



=> log y  
COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
17.42	214.78

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY	TOTAL SESSION
-2.46	-2.46

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